## MODULE V – MISCELLANEOUS MUNITIONS PROCESSING OPERATIONS

This module addresses the requirements for various munitions treatment processes at the facility. These include the small caliber ammunition disassembly line located in Building 1325.

### V.A. Small Caliber Ammunition Disassembly Line

The Small Caliber Ammunition Disassembly Line is a process which removes the projectile, recovers the propellant (for recycling) and initiates the primer. The disassembly line is configured to process 20 and 25 mm cartridges. The process includes ancillary feed equipment prior to a continuous motion pull-apart turret that separates the projectiles from the cartridge case filled with propellant. The projectile is containerized and transferred to the deactivation furnace for treatment. The cartridge cases continue to a dump cubical where they are inverted and the propellant drops out and is collected for recycling. The empty case with the primer then continues on to the primer firing module where the primer is initiated. Emissions from this part of the process are pulled by fans through a pollution abatement system. The pollution abatement system includes a Uni-Wash Model UC-10 wet type dust collector that removes particulate matter followed by a dry cell to remove excess moisture; a Mac Environmental Model FT30 cyclone separator; and a MIASMACT Model 4M2S automatic-cleaning HEPA filtering system.

The first part of this process (the pull apart machine and propellant dump cubicle) is not covered by this permit as it is exempt under 40 CFR 266.202(a)(2). The emissions and pollution abatement system are regulated by an Approval Order issued by the Utah Division of Air Quality and is therefore not subject to the requirements of this permit. This permit covers the operation of the primer firing module and the storage of wastes associated with this process.

V.A.1. **OPERATION AND MAINTENANCE**

V.A.1.a. The Permittee shall maintain and operate the disassembly line in accordance with the drawings and specifications contained in Attachment 22.

V.A.1.b. Modifications to the drawings and specifications for the disassembly line shall be allowed only in accordance with the permit modification requirements in Condition I.D and R315-3-4.3, which incorporates 40 CFR 270.42 by reference.

V.A.1.c. The Permittee shall maintain the disassembly line and ancillary equipment in good repair. Routine maintenance shall be performed at sufficient frequency to ensure the disassembly line remains in good repair. Malfunctions and deterioration shall be corrected as expeditiously as possible.

V.A.2. **PERFORMANCE STANDARDS**

Empty cases with the primer shall be processed through the primer firing module as they are generated from the propellant recovery operation. Alternatively, they may be accumulated and processed in the deactivation furnace. Primers that are not initiated in the first past, shall be run through the process again, up to three additional passes, until they are initiated. Any primers that are not initiated shall be accumulated and processed in the deactivation furnace or another appropriate permitted facility.

V.A.3. **FEED LIMITATIONS AND OPERATING REQUIREMENTS**

V.A.3.a. The Permittee may only feed 20 and 25 mm cartridges to the disassembly line.

V.A.3.b. The maximum inventory that may be stored in building 1325 is 50,000 rounds.

V.A.3.c. Projectiles removed from the cartridge will be packaged and labeled as hazardous waste and stored in accordance with 40 CFR 262.30 until they can be treated in the deactivation furnace or another appropriate permitted facility.

V.A.3.d. Primers that are not initiated in the first past, will be run through the process again, up to three additional passes, until they are initiated and/or packaged and labeled as hazardous waste until they can be treated in the deactivation furnace or another appropriate permitted facility.

V.A.3.e. The primer firing module shall be equipped with an acoustical detector and a means of separating the cartridge cases with primers that did not initiate from those that did.

V.A.3.f. Each cartridge case will be visually inspected prior to removal from the depot for recycling purposes and certified as explosive free. The certification will be documented on DD Form 1348. This inspection and certification shall be done before these items are removed from building 1325, the paved area around building 1325, or the paved area of Building 1320. Containers of cartridge cases which have been inspected and certified as explosive free shall be clearly labeled to distinguish them from containers of cartridge cases which have not yet been inspected. Any primers that are discovered to have not been initiated shall be packaged and labeled as hazardous waste and treated in the deactivation furnace or another appropriate permitted facility.

V.A.3.g. Recovered propellant will be stored as product until it can be recycled/reused. Should propellant fail stability tests or other Army criteria for safety, it will be treated in the OB/OD facility in accordance with hazardous waste regulations.

V.A.4. **MONITORING, RECORDKEEPING, AND CALIBRATION REQUIREMENTS**

V.A.4.a. Empty cartridge cases with the primer may be fed to the primer firing module only when all equipment and instruments required by this condition are on-line and operating properly.

V.A.4.b. The acoustical detector and cartridge separating device shall be calibrated in accordance with Attachment 13. Records shall be maintained of any calibrations or maintenance performed.

V.A.4.c. The hours of operation and the amount of waste fed to the primer firing module shall be monitored and recorded on a daily basis.

V.A.4.d The number of primers found during the visual inspection to have not initiated shall be recorded in the operating log.

V.A.4.d. Copies of the data collected under this condition shall be provided to the Executive Secretary upon request.

V.A.5. **WASTE FEED CUT-OFF REQUIREMENTS**

The Permittee shall cease feed to the disassembly line under any of the following conditions:

V.A.5.a. Any mechanical malfunction with either the disassembly line or controls which would compromise the integrity of the system.

V.A.5.b. Waste residue collection bins, hoppers, or containers are full and additional waste feeds would cause these receptacles to overflow.

V.A.6. **REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE**

The Permittee shall comply with all applicable provisions of DoD 6055.9-STD, *DoD Ammunition and Explosives Safety Standards*.

V.A.7. **INSPECTION REQUIREMENTS**

On at least a daily basis, when in operation, the Permittee shall thoroughly, visually inspect the disassembly line and associated equipment (conveyors, ducting, feed systems, etc.) and containment systems for leaks, spills, fugitive emissions, deterioration, excessive wear, and signs of tampering per Attachment 4. These inspections shall be accurately documented.